

**THE**  
**DOE RUN**  
**COMPANY**

Remediation Group

**Mark Nations**  
**Mining Properties Manager**  
**mnations@doerun.com**

July 11, 2013

Mr. Jason Gunter  
Remedial Project Manager  
U.S. Environmental Protection Agency  
Region 7 - Superfund Branch  
11201 Renner Blvd.  
Lenexa, KS 66219

**Re: The Doe Run Company – Federal Mine Tailings Site Monthly Progress Report**

Dear Mr. Gunter:

As required by Article XVII, Paragraph 73 of the Administrative Order on Consent (Docket No.VII-97-F-0009) for the referenced project and on behalf of The Doe Run Company, the progress report for the period June 1, 2013 through June 30, 2013 is enclosed. If you have any questions or comments, please call me at 573-518-0800.

Sincerely,



Mark Nations  
Mining Properties Manager

TLM/jms  
Enclosure

c: Jason England – TDRC  
Matt Wohl – TDRC (electronic only)  
Mark Yingling – TDRC (electronic only)  
Martin Kator – MDNR - DSP  
Robert Hinkson – MDNR - HWP  
Ty Morris – Barr Engineering

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Superfund

**Federal Mine Tailings Site**  
Park Hills, Missouri  
**Monthly Progress Report**  
Period: June 1, 2013 – June 30, 2013

**1. Actions Performed or Completed This Period:**

- Work continued on the task of stockpiling rock onsite. This work focused on stockpiling trail rock, Type 1 riprap, Type 2 riprap, and Type 3 riprap. These rock types are being stockpiled in the northern portion of the Borrow Area. As of the end of the period, work on this task continued.
- Work in the Off Road Vehicle (ORV) Riding Area continued on the East Main Drainage Channel between 50+00 and the Main Drainage Channel. This work focused on constructing the channel, final grading, and applying rock to these areas. Due to large rainfalls on May 30th and 31st, the Drainage Channel near station 50+00 had some tailings silt in that will need to be removed. As of the end of the period, work on this task has been completed.
- Work in the ORV Riding Area also continued on the Blue Bird Drainage Channel between 25+00 and the Main Drainage Channel. This work focused on place of graded rock in the channel. As of the end of the period, work on this task continued.
- Work in the ORV Riding Area also continued on covering the trails and grids that exceeded the 600 ppm action level in the portion of the ORV Riding Area included in Phase III and Phase IV of the fencing plan. As of the end of the period, work on this task continued.
- Work began in the Borrow Pit Area. This work focused on final grading and placing rock in the Blue Bird Drainage Channel between Blue Bird Lake and the ORV Area. As of the end of the period, work on this task continued.
- Work continued in the Shaw Branch Creek Area north of Highway 32. This work focused on clearing and grubbing the trees from the area, as well as grading the area to drain and shaping the Shaw Branch Drainage Channel. As of the end of the period, work on this task has been completed.
- Work continued in the Shaw Branch Creek Area north of Highway 32. This work focused on placing graded rock in the drainage channel and shot rock over the rest of the area. As of the end of the period, the drainage channel was complete and rocking had begun on the rest of the area.

**2. Data and Results Received This Period:**

- Attached are the lead monitoring results for the Missouri Department of Natural Resources – Department of State Parks (MDNR-DSP) air monitor located near the ORV Riding Area for April 2013. Neither The Doe Run Company nor Barr Engineering were involved with siting this monitor, collecting the samples, processing the samples, evaluating the data, or verifying the accuracy of the data.
- During this period, the Ambient Air Monitoring Reports for January 2013, February 2013, and March 2013 were completed. Any issues identified in these reports are discussed below. A copy of these documents has been sent to your attention.

The January 2013 Ambient Air Monitoring Report noted the following:

- The action levels for lead and dust were not exceeded.
- No samples were taken with the TSP or PM10 monitors on 01/01/13 due to the holiday.
- Sampling for the monitors at Federal #4 began on January 23, 2013.
- No samples were taken with the Federal #2 TSP monitor on 01/24/13 due to mechanical failure. Upon discovery, the issue was corrected.

The February 2013 Ambient Air Monitoring Report noted the following:

- The action levels for lead and dust were not exceeded.



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- No samples were taken with the TSP monitors on 02/22/13 due to an ice storm.
- No samples were taken with the PM10 monitors on 02/24/13 due to an ice storm.
- There was a QA blank filter for the Federal #4 TSP and PM10 monitors on 02/27/13.

The March 2013 Ambient Air Monitoring Report noted the following:

- The action levels for lead and dust were not exceeded.
- No samples were taken with the Federal #4 PM10 monitor on 03/02/13 due to mechanical failure. Upon discovery, the issue was corrected.
- No samples were taken with the TSP monitors on 03/07/13 due to the remediation crew being at annual training.

**3. Planned Activities for Next Period:**

- Work in the ORV Riding Area will continue on the task of covering the trails and grids that exceeded the 600 ppm action level in the portion of the area included in the Phase III and IV fencing plan.
- Work in the ORV Riding Area will continue on the East Main Drainage Channel and the Blue Bird Drainage Channel. Work in this area will focus on constructing and rocking these channels.
- Work in the Borrow Pit Area will continue on the Blue Bird Drainage Channel. Work in this area will focus on rocking this channel.
- Work will continue in the Shaw Branch Creek Area north of Highway 32. Work in this area will focus on rocking this area.
- Work will continue on the task of stockpiling trail rock, Type 1 riprap, and Type 2 riprap.
- The next MDNR-DSP progress meeting is planned for July 23, 2013.

**4. Changes in Personnel:**

- None

**5. Issues or Problems Encountered and the Resolution:**

- None.

**End of Monthly Progress Report**

**1221 Mill Street, Leadwood, MO 63653**  
**Telephone: (573) 562-7793**

# Air Quality Monitoring Pb results for April 2013

St. Joe State Park

Primary

AQM Pb results for February 2013					AQM Pb results for March 2013				
St. Joe State Park					St. Joe State Park				
Primary					Primary				
Sample Number	Date Collected	Sampler:	Result		Sample Number	Date Collected	Sampler:	Result	
AB91948	2/3/2013	#1 Primary	0.0272	µg/m³	AB94423	3/2/2013	#1 Primary	0.0196	µg/m³
AB91949	2/6/2013	#1 Primary	0.0201	µg/m³	AB94425	3/8/2013	#1 Primary	0.0090	µg/m³
AB91950	2/9/2013	#1 Primary	0.0077	µg/m³	AB94428	3/17/2013	#1 Primary	0.0052	µg/m³
AB91951	2/12/2013	#1 Primary	0.0088	µg/m³	AB94429	3/20/2013	#1 Primary	0.0094	µg/m³
AB91952	2/15/2013	#1 Primary	0.0067	µg/m³	AB94430	3/23/2013	#1 Primary	0.0356	µg/m³
AB91953	2/18/2013	#1 Primary	0.0037	µg/m³	AB94431	3/26/2013	#1 Primary	0.0044	µg/m³
AB91954	2/21/2013	#1 Primary	0.0139	µg/m³	AB94432	3/29/2013	#1 Primary	0.0124	µg/m³
AB91955	2/24/2013	#1 Primary	0.0202	µg/m³	March Sum 0.0956		March Average 0.0136571428571429 µg/m³		
AB91956	2/27/2013	#1 Primary	0.0064	µg/m³	Run Days Scheduled: 10 Actual: 7		March Data Capture Rate 70.000%		
February Sum 0.1147		February Average 0.0127444444444444 µg/m³							
Run Days Scheduled: 9 Actual: 9		February Data Capture Rate 100.000%							

Sample Number	Date Collected	Site:	Result
AB95910	4/1/2013	St. Joe State Park - #1 Primary	0.0151 µg/m³
AB95930	4/4/2013	St. Joe State Park - #1 Primary	0.3022 µg/m³
AB95950	4/7/2013	St. Joe State Park - #1 Primary	0.0629 µg/m³
AB95970	4/10/2013	St. Joe State Park - #1 Primary	0.0874 µg/m³
AB95982	4/13/2013	St. Joe State Park - #1 Primary	0.0613 µg/m³
AB95987	4/16/2013	St. Joe State Park - #1 Primary	0.0135 µg/m³
AB95993	4/19/2013	St. Joe State Park - #1 Primary	0.0052 µg/m³
AB95999	4/22/2013	St. Joe State Park - #1 Primary	0.0078 µg/m³
AB96005	4/25/2013	St. Joe State Park - #1 Primary	0.0094 µg/m³
AB96010	4/28/2013	St. Joe State Park - #1 Primary	0.0122 µg/m³
April Sum 0.577		April Average 0.0577	µg/m³
		Run Days Scheduled: 10 Actual: 10	
		April Data Capture Rate 100.000%	

Three month rolling average: 0.03 µg/m³

Three Month Data Capture Rate: 90%